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OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,919

DATE: 07/27/2001

TIME: 10:10:00

Input Set : A:\026350-048.ST25.txt

Output Set: N:\CRF3\07272001\I805919.raw

ENTERED

4 <110> APPLICANT: Sano, Hiroshi  
 5 Kusano, Tomonobu  
 7 <120> TITLE OF INVENTION: A Gene Which Exhibits Induced Expression By Stress  
 9 <130> FILE REFERENCE: 026350-048  
 11 <140> CURRENT APPLICATION NUMBER: US 09/805,919  
 C--> 12 <141> CURRENT FILING DATE: 2000-03-15  
 14 <150> PRIOR APPLICATION NUMBER: JP 2000-71,655  
 15 <151> PRIOR FILING DATE: 2000-03-15  
 17 <160> NUMBER OF SEQ ID NOS: 3  
 19 <170> SOFTWARE: PatentIn version 3.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 308  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Nicotiana tabacum  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: PEPTIDE  
 28 <222> LOCATION: (277)  
 29 <223> OTHER INFORMATION: Amino acid 277 is "Xaa" wherein "Xaa" = any amino acid.  
 31 <400> SEQUENCE: 1  
 33 Met Leu Thr Arg Gly Leu Leu Phe Ala Cys Val Leu Leu Leu Val Thr  
 34 1 5 10 15  
 36 Leu Ile Ser Ser Ser Lys Ala Gln Asp Ile Ser Gln Cys Val Pro Ser  
 37 20 25 30  
 39 Ser Cys Gly Asp Ile Gln Ile Lys Phe Pro Phe Arg Leu Arg Thr Asp  
 40 35 40 45  
 42 Pro Glu His Cys Gly Arg Arg Gly Tyr Glu Leu Asp Cys Gln Asn Asn  
 43 50 55 60  
 45 Gln Thr Val Phe Asn Tyr Lys Ser Arg Ile Phe Asp Val Gln Glu Ile  
 46 65 70 75 80  
 48 Asn Tyr Arg Ser Tyr Ser Ile Arg Leu Leu Asp Pro Gly Leu Asn Asp  
 49 85 90 95  
 51 Gln Arg Glu Asn Cys Thr Val Phe Pro Asn His Arg Ala Ser Tyr Asp  
 52 100 105 110  
 54 Ala Met Thr Ser Gln Ile Phe Glu Trp Val Arg Val Asn Asn Asp Ile  
 55 115 120 125  
 57 Asn Tyr Val Asn Cys Leu Ala Pro Ile Asn Ser Ser Gln Tyr Ile Pro  
 58 130 135 140  
 60 Thr Ser Phe Cys Ser Lys Asn Ser Thr Gly Phe Ser Tyr Leu Val Ile  
 61 145 150 155 160  
 63 Arg Glu Ile Leu Gln Ala Ser Asp Leu Ala Gly Gly Cys Arg Val Glu  
 64 165 170 175  
 66 Thr Val Ala Trp Ser Ser Ala Pro Gly Ile Ser Ser Asn Lys Ser Ser  
 67 180 185 190  
 69 Thr Leu Ser Ser Thr His Gln Gly Leu Ala Tyr Gly Phe Glu Leu Ser  
 70 195 200 205  
 72 Trp Lys Arg Asn Leu Leu Cys Arg Asn Cys Asp Arg Ser Arg Gly Gly  
 73 210 215 220

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75 Glu Cys Thr Ile Glu Glu Asn Ser Asp Arg Ala Thr Cys Arg Tyr Trp  
 76 225 230 235 240  
 78 Cys Lys Glu Asp Ile His Val Ser Lys Leu Thr Phe Arg Cys Lys Val  
 79 245 250 255  
 81 Glu Tyr Tyr Ser Val Tyr Val Leu Phe Phe Gly Gly Ile Gly Ile Gly  
 82 260 265 270  
 84 Gly Val Leu Ala Xaa Arg Phe Leu Leu Gly Ile Pro Ile Leu Ile Ala  
 85 275 280 285  
 87 Ala Val Val Trp Gln Cys Lys Arg Arg Asn Leu His Thr Ser Ser Asp  
 88 290 295 300  
 90 Glu Gln Asn Cys  
 91 305

93 &lt;210&gt; SEQ ID NO: 2

94 &lt;211&gt; LENGTH: 927

95 &lt;212&gt; TYPE: DNA

96 &lt;213&gt; ORGANISM: Nicotiana tabacum

98 &lt;400&gt; SEQUENCE: 2

99 atgttgacaa gagggctgct tttcgcttgt gttttgttac ttgtgacact cataagcagt 60  
 101 tctaaagcgc aggatatttc tcaatgtgtc ccttcttcct gcggtgatat tcaaataaaa 120  
 103 tttcccttcc gactgaggac tgatcccgag cattgtggta gacgcggata tgagctcgat 180  
 105 tgccagaaca accaaaccgt gttcaattac aaatccagaa ttttcgacgt acaggaaatt 240  
 107 aactacagaa gctactcaat aaggctactt gatcctggcc taaatgatca gagagaaaat 300  
 109 tgcacagttt ttccaaatca cagggcaagt tatgatgcca tgactagcca aatctttgaa 360  
 111 tgggttcgtg ttaacaatga tatcaactat gtcaactgtc tagctoctat caattcgta 420  
 113 cagtatatcc ctacaagttt ttgtagcaaa aattcaacgg gtttttagcta ccttgtcata 480  
 115 agagaaatat tgcaagcttc ggatttggct ggcggctgta gggttgaaac tgttgcatgg 540  
 117 tcctctgttc caggcatttc atcaaacaag tcgtctacgt tatcaagcac acatcaaggc 600  
 119 ctggcttatg ggtttgagct ttcttggaag cgtaactctgt tatgtagaaa ttgcgaccgg 660  
 121 agtcgtgggg gtgagtgacac tattgaagaa aacagcgaca gagctacttg tcgttattgg 720  
 123 tgcaaagagg acattcacgt ttcgaagctt acgttccgat gcaaagtoga gtactattct 780  
 125 gtttatgtat tgttctttgg cggtatagga ataggtggag ttttggcgct aagatttcta 840  
 127 ctaggaattc caatcttgat cgcagcagtg gtgtggcagt gcaaaagacg gaatttgcatt 900  
 129 acatcctccg atgaacagaa ctgttaa 927

132 &lt;210&gt; SEQ ID NO: 3

133 &lt;211&gt; LENGTH: 1210

134 &lt;212&gt; TYPE: DNA

135 &lt;213&gt; ORGANISM: Nicotiana tabacum

137 &lt;400&gt; SEQUENCE: 3

138 tatattcaat tgaaaacatg ttgacaagag ggctgctttt cgcttgtgtt ttgttacttg 60  
 140 tgacactcat aagcagttct aaagcgcagg atatttctca atgtgtccct tcttctgctg 120  
 142 gtgatattca aataaaaattt cccttccgac tgaggactga tcccgagcat tgtggttagac 180  
 144 gcggatatga gctcgattgc cagaacaacc aaaccgtgtt caattacaaa tccagaattt 240  
 146 tcgacgtaca ggaaattaac tacagaagct actcaataag gctacttgat cctggcctaa 300  
 148 atgatcagag agaaaattgc acagtttttc caaatcacag ggcaagttat gatgccatga 360  
 150 ctagccaaat ctttgaatgg gttcgtgtta acaatgatat caactatgtc aactgtctag 420  
 152 ctcttatcaa ttcgtcacag tatattccta caagtttttg tagcaaaaat tcaacggggt 480  
 154 ttagctacct tgcataaga gaaatattgc aagcttcgga tttggctggc ggctgtaggg 540  
 156 ttgaaactgt tgcattggtc tctgctccag gcatttcac aaacaagtcg tctacgttat 600  
 158 caagcacaca tcaaggcctg gcttatgggt ttgagctttc ttggaagcgt aatctgttat 660

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160	gtagaaattg	cgaccggagt	cgtgggggtg	agtgcactat	tgaagaaaac	agcgacagag	720
162	ctacttgtcg	ttattggtgc	aaagaggaca	ttcacgtttc	gaagcttacg	ttccgatgca	780
164	aagtcgagta	ctattctgtt	tatgtattgt	tctttggcgg	tataggaata	ggtggagttt	840
166	tggcgctaag	atttctacta	ggaattccaa	tcttgatcgc	agcagtgggtg	tggcagtgca	900
168	aaagacggaa	tttgcataca	tcctccgatg	aacagaactg	ttaagatttt	tgctagtcaa	960
170	gctattttta	cagaagtttg	tgtatttttt	tcagaaaatc	taggacaagg	tcaacctgtg	1020
172	ctggcgatta	attactagga	tttttctttc	cagtttagtc	ctgtatttta	tttgatattc	1080
174	ttacctattt	gattgtgtat	gatttttttc	cttaaaattt	tataattttc	ctaattcttg	1140
176	taagtaattg	aatggatatt	tgtactttct	gtcaataata	gaacaagaca	ttcgcaaaaa	1200
178	aaaaaaaaaa						1210

VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1